

AMENDMENTS TO THE SPECIFICATION

Please delete the section heading at page 2, line 20.

Please replace the section heading at page 10, line 9 with the following rewritten section heading:

~~-- MEANS FOR SOLVING THE PROBLEM~~SUMMARY OF THE INVENTION --

Please insert the following section heading and new paragraphs at page 66, line 21 with the following:

-- BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic diagram showing an embodiment of a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 2 is a schematic top view showing an embodiment of a flow rate/liquid type detecting sensor device in a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 3 is a cross-sectional view taken on line A-A of Fig. 2;

Fig. 4 is a partially enlarged cross-sectional view showing the mounted state of the flow rate/liquid type detecting sensor shown in Fig. 3;

Fig. 5 is a cross-sectional view of a flow rate/liquid type detecting sensor;

Fig. 6 is a partially enlarged exploded perspective view showing the state of stacking of a thin-film chip part in a flow rate/liquid type detecting sensor;

Fig. 7 is a schematic circuit block diagram of an embodiment of a flow rate/liquid type detecting sensor device in a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 8 is a graph showing a time vs. voltage relationship illustrating a liquid type detecting method using a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 9 is a graph showing calibration curve illustrating a liquid type detecting method using a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 10 is a graph illustrating an output correction method in a liquid type detecting method using a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 11 is a graph showing a calibration curve illustrating a flow rate detecting method using a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 12 is a schematic diagram of the whole measuring apparatus used for obtaining calibration curve data shown in Fig. 11;

Fig. 13 is a graph showing a calibration curve illustrating a concentration detecting method using a flow rate/liquid type detecting apparatus according to the present invention;

Fig. 14 is the same schematic diagram as Fig. 17, illustrating an embodiment in which a flow rate/liquid type detecting apparatus 1 having the above construction is applied to an automotive system;

Fig. 15 is the same schematic diagram as Fig. 17, illustrating an embodiment in which a flow rate/liquid type detecting apparatus 1 having the above construction is applied to an automotive system;

Fig. 16 is the same schematic diagram as Fig. 19, illustrating an embodiment in which a flow rate/liquid type detecting apparatus 1 having the above construction is applied to an automotive system using a urea solution;

Fig. 17 is a schematic diagram of a conventional automotive system;

Fig. 18 is a graph showing distillation properties of gasoline;

Fig. 19 is a schematic diagram of a conventional automotive system using a urea solution;

Fig. 20 is an exploded perspective view of the whole liquid type detecting apparatus according to the present invention;

Fig. 21 is an exploded perspective view of a liquid type detecting chamber in a liquid type detecting apparatus according to the present invention;

Fig. 22 is a schematic diagram illustrating the state of detection of a liquid type detecting chamber in a liquid type detecting apparatus according to the present invention; and

Fig. 23 is a perspective view showing another embodiment of a liquid type detecting apparatus according to the present invention.

Please replace the section heading at page 66, line 22 with the following rewritten section heading:

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| -- ~~EMBODIMENTS~~ DETAILED DESCRIPTION OF THE INVENTION --

Please delete the section heading at page 106, line 11.

Please delete the section heading and entire section beginning at page 106, line 18 to page 112, line 8.